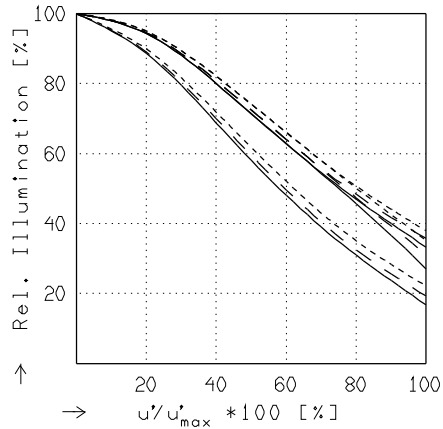
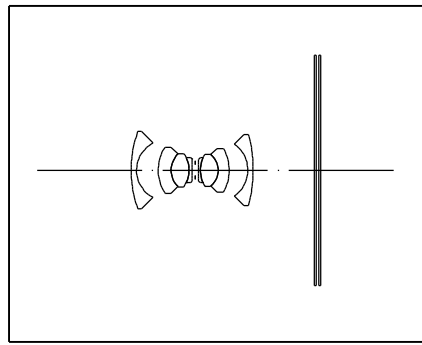


## AP0-DIGITAR 5.6/60 XL

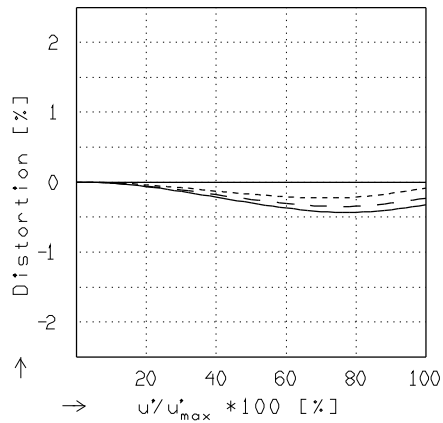
$f' = 60.0 \text{ mm}$      $\beta_p = 0.962$   
 $s_F = -40.9 \text{ mm}$      $s_{EP} = 21.5 \text{ mm}$   
 $s_{F'} = 3.5 \text{ mm}$      $s_{AP} = -54.2 \text{ mm}$   
 $HH' = 26.0 \text{ mm}$      $\Sigma d = 101.6 \text{ mm}$



### RELATIVE ILLUMINATION

The relative illumination is shown for the given focal distances or magnifications.

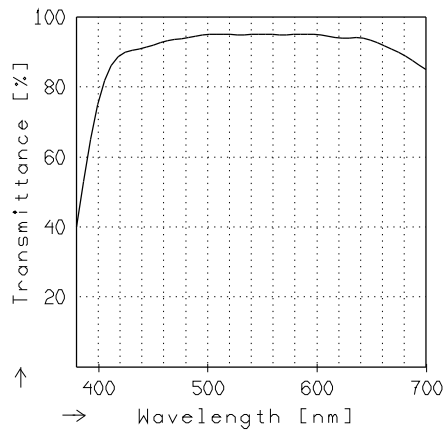
|                          | $f / 5.7$         | $f / 8.0$      | $f / 11.0$ |
|--------------------------|-------------------|----------------|------------|
| — $\beta' = 0.0000$      | $u'_{max} = 59.8$ | $00' = \infty$ |            |
| - - $\beta' = -0.0255$   | $u'_{max} = 59.9$ | $00' = 2500.$  |            |
| - · - $\beta' = -0.0707$ | $u'_{max} = 60.0$ | $00' = 1000.$  |            |



### DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

|                          |                   |                |
|--------------------------|-------------------|----------------|
| — $\beta' = 0.0000$      | $u'_{max} = 60.0$ | $00' = \infty$ |
| - - $\beta' = -0.0255$   | $u'_{max} = 60.0$ | $00' = 2500.$  |
| - · - $\beta' = -0.0707$ | $u'_{max} = 60.0$ | $00' = 1000.$  |



### TRANSMITTANCE

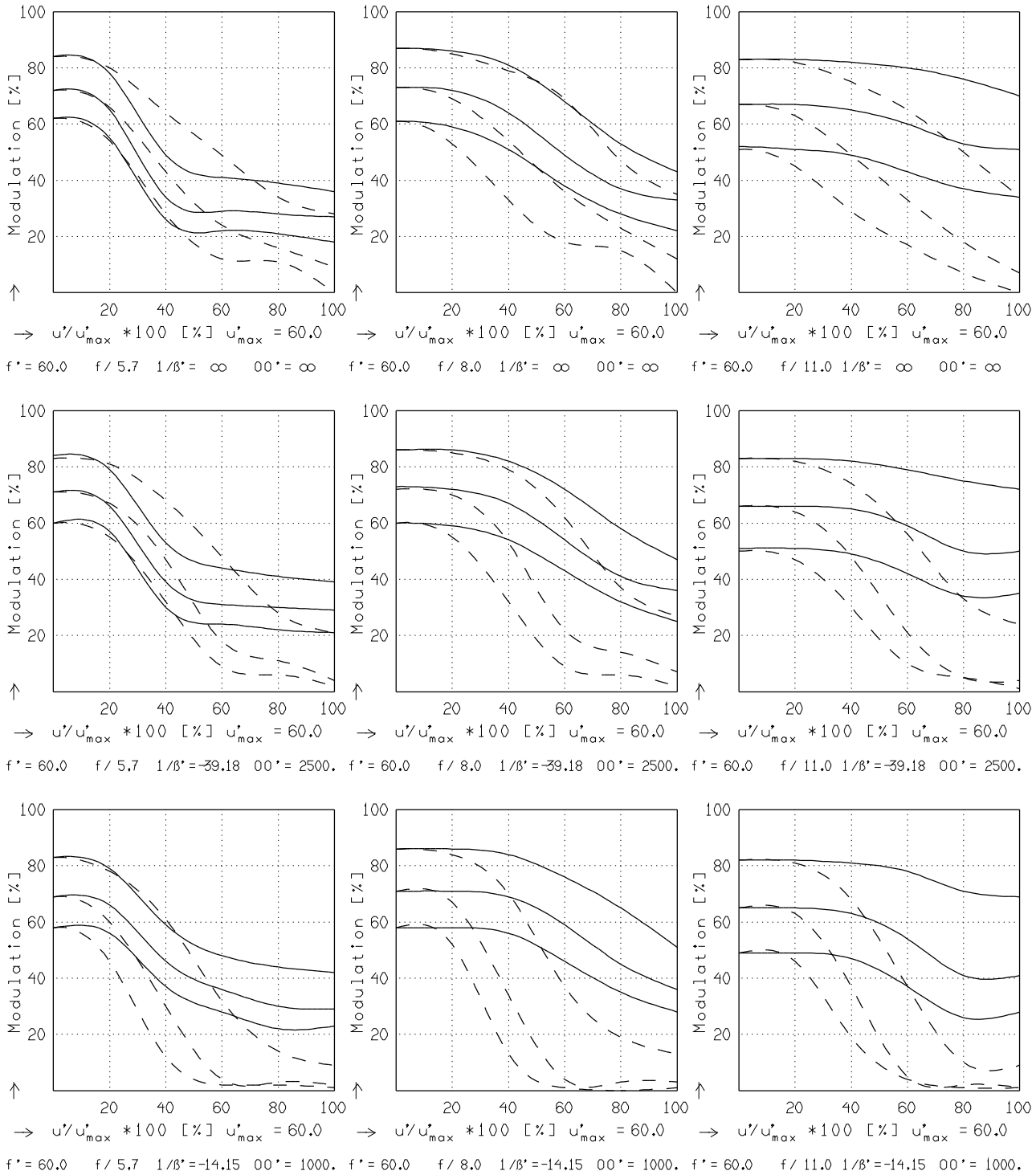
Relative spectral transmittance is shown with reference to wavelength.

**APO-DIGITAR 5.6/60 XL**

**MODULATION** with reference to the relative image height

|                             |        |       |      |      |      |     |     |
|-----------------------------|--------|-------|------|------|------|-----|-----|
| Wavelength $\lambda$        | [nm]   | 546   | 644  | 588  | 486  | 436 | 436 |
| Spectral weighting          | [%]    | 28.7  | 18.9 | 25.8 | 19.2 | 7.4 | 0.0 |
| Spatial frequency R         | [1/mm] | 20    | 40   | 60   |      |     |     |
| Image- $\emptyset$ f / 5.7  | [mm]   | 120.0 |      |      |      |     |     |
| Image- $\emptyset$ f / 11.0 | [mm]   | 120.0 |      |      |      |     |     |

radial —  
 tangential - -



Focusing : MTF<sub>max</sub> at f / 5.6 , R = 60 1/mm, u'/u'\_max = 0

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